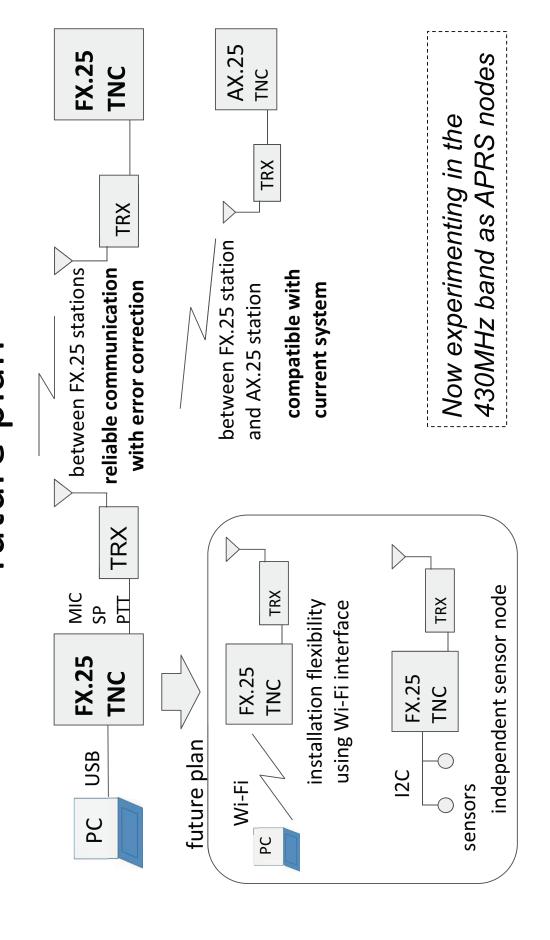
Current status report of FX.25 KISS TNC development

Masaaki Yonezawa, JE1WAZ Kazuhisa Yokota, JN1DFF

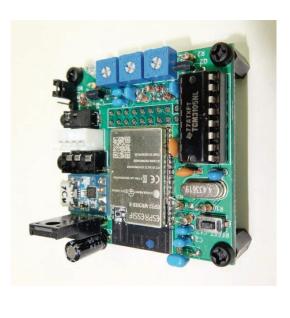
Packet Radio Users' Group Aug.12, 2020

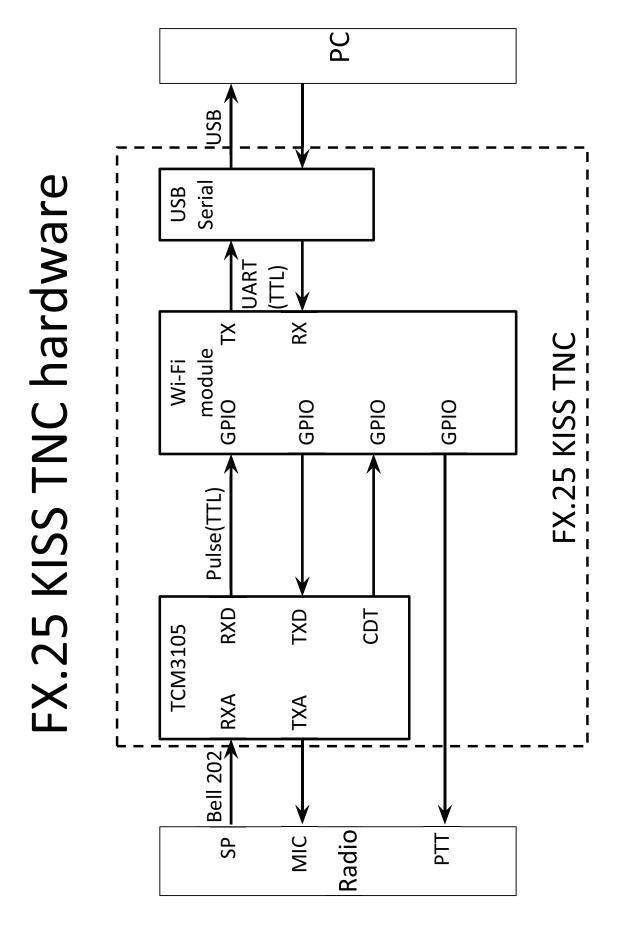
Use of FX.25 KISS TNC and future plan



Features of FX.25 KISS TNC

- Using TI TCM3105 Bell 202 modem chip
- Implements software modem on next version
- Using ESP-WROOM-32 Wi-Fi module
- Dual core 32bit RISC CPU, clock 80-240MHz
- RAM 520kB, flash ROM 4MB
- Host interface is USB serial and TCP/IP on Wi-Fi
- KISS mode only
- supports full FX.25 draft spec.
- http://www.stensat.org/docs/FX-25_01_06.pdf
 - can receive AX.25 packet, too





Features of TNC software

- Implemented by Clanguage
- **Running on FreeRTOS**
- Each functions implemented as tasks of OS
- Using queues inter task communication
- Using interrupt to read RXD signal of modem
- Using infra red I/F to send the data to modem
- Implements software modem on next version
 - The TNC software is available on GitHub
- https://github.com/amedes/fx25-kiss-tnc